SEQUENCE LISTING

```
<110>   Kadowaki, Takashi
        Yamauchi, Toshimasa
        Kitajima, Shoko
        Ito, Yusuke

<120>   Adiponectin expression-inducing agents and uses thereof

<130>

<140>   Unassigned
<141>   2006-09-29

<150>   PCT/JP2005/006357
<151>   2005-03-31

<150>   US 60/557,708
<151>   2004-03-31

<160>   7

<170>   PatentIn version 3.3

<210>   1
<211>   735
<212>   DNA
<213>   Mus musculus

<400>   1
atgtccgcgg ccgcctacat ggacttcgtg gctgcccagt gtctggtttc catctccaac      60

cgcgccgccg tgccggagca cggggggcgct ccggaagccg agcggctgcg actacctgag     120

cgcgaggtga ccaaggaaca cggtgacccg ggggacacct ggaaggatta ttgcacgctg     180

gtcactatcg ccaagagctt gttggacctc aacaaatacc gacccatcca gaccccctcg     240

gtgtgcagcg acagtctgga gagtcccgat gaggatatag gatccgacag cgacgtgacc     300

accgaatctg ggtcgagtcc ttcccacagc ccggaggaga gacaggattc tggcagcgcg     360

cccagcccac tctccctcct ccactctgga gtggcttcga aggggaaaca cgcctccgaa     420

aagaggcaca agtgccccta cagtggctgt gggaaagtct atggaaaatc ctcccatctt     480

aaagcccatt acagagtgca tacaggtgaa cggcccttc cctgcacgtg gccagactgc     540

cttaaaaagt tctcgcgctc ggatgagctg acccgccact accggaccca cactggggaa     600

aagcagttcc gttgcccact gtgtgagaag agattcatga ggagtgacca tctcaccaag     660

catgcccggc gtcacaccga gttccatccc agcatgatca agagatcaaa aaaggctctt     720

gccagcccct tgtga                                                      735


<210>   2
<211>   244
<212>   PRT
<213>   Mus musculus

<400>   2
```

```
Met Ser Ala Ala Ala Tyr Met Asp Phe Val Ala Ala Gln Cys Leu Val
1               5                   10                  15

Ser Ile Ser Asn Arg Ala Ala Val Pro Glu His Gly Gly Ala Pro Glu
            20              25                  30

Ala Glu Arg Leu Arg Leu Pro Glu Arg Glu Val Thr Lys Glu His Gly
        35              40                  45

Asp Pro Gly Asp Thr Trp Lys Asp Tyr Cys Thr Leu Val Thr Ile Ala
    50              55                  60

Lys Ser Leu Leu Asp Leu Asn Lys Tyr Arg Pro Ile Gln Thr Pro Ser
65              70                  75                  80

Val Cys Ser Asp Ser Leu Glu Ser Pro Asp Glu Asp Ile Gly Ser Asp
            85                  90                  95

Ser Asp Val Thr Thr Glu Ser Gly Ser Ser Pro Ser His Ser Pro Glu
            100             105                 110

Glu Arg Gln Asp Ser Gly Ser Ala Pro Ser Pro Leu Ser Leu Leu His
        115             120                 125

Ser Gly Val Ala Ser Lys Gly Lys His Ala Ser Glu Lys Arg His Lys
    130             135                 140

Cys Pro Tyr Ser Gly Cys Gly Lys Val Tyr Gly Lys Ser Ser His Leu
145             150                 155                 160

Lys Ala His Tyr Arg Val His Thr Gly Glu Arg Pro Phe Pro Cys Thr
            165                 170                 175

Trp Pro Asp Cys Leu Lys Lys Phe Ser Arg Ser Asp Glu Leu Thr Arg
            180             185                 190

His Tyr Arg Thr His Thr Gly Glu Lys Gln Phe Arg Cys Pro Leu Cys
        195             200                 205

Glu Lys Arg Phe Met Arg Ser Asp His Leu Thr Lys His Ala Arg Arg
    210             215                 220

His Thr Glu Phe His Pro Ser Met Ile Lys Arg Ser Lys Lys Ala Leu
225             230                 235                 240

Ala Ser Pro Leu
```

```
<210>  3
<211>  9229
<212>  DNA
<213>  Homo sapiens


<220>
<221>  misc_feature
<222>  (27)..(27)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (97)..(97)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (204)..(204)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (207)..(207)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (281)..(281)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (677)..(677)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (681)..(681)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3260)..(3260)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3262)..(3262)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3274)..(3274)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3297)..(3297)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3311)..(3311)
```

```
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3313)..(3313)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3318)..(3318)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3338)..(3338)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3347)..(3347)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3356)..(3356)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3389)..(3389)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3412)..(3412)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3422)..(3422)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3424)..(3424)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3426)..(3426)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3430)..(3430)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
<222>  (3459)..(3459)
<223>  n is a, c, g, or t

<220>
<221>  misc_feature
```

```
<222>   (3477)..(3477)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (3507)..(3507)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (3542)..(3542)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (3892)..(3892)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (4344)..(4344)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (4551)..(4551)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (5699)..(5699)
<223>   n is a, c, g, or t

<400>   3
aacatacata tcttggtgag ggattanccc atataatgaa cagagtagag aatcctgaaa        60

gagatcccaa tgcatttgaa aaatgggtat atgaaanagt catttaaaaa atagaaccaa       120

aaagataaat atccattaaa aaggagggtg ttgagtcccc taactaagaa tatatatata       180

tatatatata tatatatagc tagnttnccc tttaattccc tctgaagaag gaattgctta       240

tgcaagactc caaagctgag aaccagattg tctttcagtg ntcatgcagc ctggaaagcc       300

cccaccttat gtaccaatag attgtgaagc aatcaaagac tactacatac actttaaagc       360

caaccagaaa gactccttcc cttccaagta tcttctaccc gattggaact agaatatgtc       420

accctgaaag aacactcacc aaagattggc ttaagtcttc ctccttttag tctgtaaaac       480

ttactcttct aggctggcgc agtggctcac gcctataatc ccagcacttt gggaagctaa       540

ggcgggtgga tcacctgagg tcaggagttc gagaccagcc tggcaaacat ggtaaaaccc       600

cgtctttact aaaaatacaa aaattagctg ggaatagtgg caggtgcctg tagtcccagc       660

tgctcaggag gctgagncag nagaatcgct tcaacctggg aagcggagct tgcagtgagc       720

tgagatcgtg ctactgcact ccagcctggg caagagtgag actccatctc aaaacaaaca       780

aacaaacaat aagacaaaaa aacttactct cctttcaaac cccttccaac ctctactata       840

atgaaaatga tggcagctga ctcccttata acagtaagtt ttgaataaac agcctttgat       900
```

```
taattctatt ttgtttgcca aagaaaataa ttaaagtttg gtaaaataaa ataattaaaa      960

gaaaaagaaa tcatggacac tctagaagaa aacatttatt tgagctttac tgctgaaaaa     1020

gaaaacatat tttaaaaagt aaccttgact gcacagcaaa agaaactatc aacaaagtaa     1080

gcagacaacc tacagaatgg aagaaaatat gcacaaacta tgtatctgac aaaggtctaa     1140

tattcagaat ctataaggaa cttaaatcaa caagcaaaaa acaaataacc ccatttatgg     1200

cctttgctta cttttttgggc agtcctcaaa agaagacatc caagtggcaa acaatcatat     1260

gaaaaaatgc ttatcatcac taatcatcag agaaaagcaa gtcaaaacca cagtgaagta     1320

tcatcacaca ccagtcaaaa tggctattat taaaaataac agatgttggc agtgctgcag     1380

agaaaaggga ttgcttatgc actgttggtg agaatgtaaa ttcatttagc tactgtggaa     1440

agcaggagat ttctcaaaga actaaaaata tatatatcat tcaaaccaac aattccatta     1500

ctagatatat atccaaagga aaataaattg ttctatcaaa aagacacatg cacctgtatg     1560

ttcatcgcag tattattcgc aatagcaaat acatggaatc aaccaaggtg ttaatcaaca     1620

gaggagtgga taaagaaaat gtggtacata tacaccatgg aatactatac agtcagaaga     1680

aagaatgaaa tcatggcctt tgcagcaaca tggatgcagc tagggaccat tatcctaagt     1740

aaactaatgc agaaacagaa aagcaaatgc cacatgttct cacttataag tgggagccaa     1800

gtgagtacac atggacatga aatggaaaca atagacactg gagactacaa gagaagggag     1860

ggggacaggg attgaaaaac tacctattgg gtactatgct cagtacttga gtgatgggtt     1920

caatcgtatg caaatttcag catcatgcaa tataccttg taacaaacct gcacatgtac      1980

caccctgaa tctaaaataa aagttgaaaa aaacaaaaac aaaaaaaccc cttggaatgg      2040

gaggagtctt ttcagaccaa acatgagacc cagaagacaa aaagtaaact gttaataagt     2100

taggctgcat agcaagccaa aattttata tgaaacattt tttaaagtga aaagatagat      2160

aaattttcaa aacatataac aaagaattaa tttctttggt atacaatgag cttttaaaaa     2220

ttaataagaa taattcaatg agaggttgaa atgggtacaa atatagagtt aggtagaagc     2280

ataagaccta agtgtttgat agatcagtag ggtgactata gttcaagata atctattgta     2340

cctgtcaaaa tagctagaag agaacaattc aaatgttcct agcattaaaa aagataaata     2400

ttgccggtga tgaataccct aattactttt ttttttccca gacagagtct cgttctgtca     2460

cccaggctga agtgcaatgg cgcaatcttg gctcactgca acctccgcct cctgggttcc     2520

agtgattctc ctgtctcagc ctcccaagta gctgggatta caggggccca cagccatgcc     2580

tggctaattt ttgtattttt agcagagatg gggtttcacc atgttggtca gactggtctt     2640

gaactcctga tctcaggtga tacacccacc tcggcctccc aaagtgctgg gatgacaagc     2700

gttagtcact gtacccgacc tccttagatc tttacacatt atatgaatgt gtcaaattat     2760

tacatgtatc ccaaaaatat gtacattatg tgttaataaa aagattttca aaattaataa     2820
```

```
gaataattca ataaggaaaa tggacaaggg aagaaacaca caattccagg aaaaaataca   2880

aataatcaat aaatatatga tgcatttaat cacatataat agaagaaata caaataaaaa   2940

taaggcactt ttaacacaat ctattagaat accagatatt taaatttgac agaattgagt   3000

attggtgagg atatagagaa atgggcactc tcatcctaca ttgggagaaa tataaatcaa   3060

tactggattc ttgagattca gtttacaata agtacaattt aagatgtgca tatctcttta   3120

ccctgcaatt ccacttctag aaatttatcc taaatattta cttacaaatg agcaaagaca   3180

tatatgtaca gggatgttca gatttttatg tcgggttttt gtacggacat agtttttttt   3240

tttttttttt ttttttttgan anggagtttc actntgtcgc ccaggctgga gtgcagnggc   3300

gtgatctcgg ntnactgnaa cctccgcctc ccaggttnaa gcaattntcc tgcctnagcc   3360

tcccaagtag ctgggattac aggcatgcnc caccacacct gggtagtttt tntatttta   3420

gnananacan agtttcacca tgttggccag gctggtctng aactcccggc ctcaggngat   3480

ttgcccgcca tggcctccca aagtganggg attacaggca tgtgccaccg agcctggcta   3540

tntggacata gttttagtt ctttgggata aatgcccaga agtgttactg ctatttaatc   3600

tttaaagaaa ctgccaaact acttttcaga gtggctgcat tattttccat tcccaccagc   3660

aaagtatgag taatctattt ttacgcattc tttcccaaat ttagtatttt cacttttttt   3720

tttttttttt tttgaggcag ggtcttgctc agttgcctag gctggagtgt agtggcacta   3780

tctcggctca ctgcaacccc tgcctcccag gcttaagcga tcctcacatc tcagcaacct   3840

gagtagctgg ggctacaggt gagtgctacc actcatgggt aatttttttt gnattcttag   3900

tagaggtgga gttccgccat gttgcccagg ctggtctcaa actcctgacc tcaagcgatc   3960

cacctgcctc tgcctcccaa agtgctgggg ttacaggcgt gcaccactgt gcctggccat   4020

tctcactatt tttaattcaa aatagtttgt gttctctatt ctccacatct ttttgttctt   4080

tttaatcatc taaagtccat agtttgtatt aggattaact tactgttgta cattctctct   4140

ctctctctct tttttttta atgagatgga gtttctctct tttttgccca ggccaagcgc   4200

aatggcacaa tctcggctca ctacaacctt tgcctcctgg gttcaagtga ttctcctgcc   4260

tcagcctccc aagtagctgg gattacaagt gcgtgccacc acacctggcc aattttgtat   4320

ttttagtaga gatgggggttt cacnatgttg gccgggctgg tctccaactc ctgacctcag   4380

ctgatctgcc tgcctcagcc tcccaaagtg ctgtaattat aggcataagc cactgtgcct   4440

ggcctagtgt tgtacattct gtgggttttg acaattgtat gcatctacat gtatgtacca   4500

ttatagtatt cctgttttta attttagcca ttctagtagg catgtagtga natctcatgg   4560

tgattttaat ttgcgtttcc gtaatggtta ataatgctga acatctttgc atgtgcttgt   4620

ttgtcatttg tgtttcctac ttggtgaaat aattgttcat gtcctttgtc cattttctaa   4680

ttgaattttt ttttaccatt tagttttgag atttctttat acaatccaga tccaaatctc   4740
```

Page 7

```
ttgtctcaaa tatggtttgc aaatacattc ctctaattca tatattgcct tttcctcctc  4800

ttaacaggat gtttcacaga gcaaaagttt tagttttgtt gaaatctcac ttttcatttt  4860

tttctttagt ggattgtgct tttgttgtca tatgtaagaa ctcttcactg gccctagatc  4920

cttgtattgg tttcctaaga ttgccatagc aaatcaccat gaacttagtg acaaaaagac  4980

agaaatttat tttcacttcc tactgtgggc agactagacg ttaattattt tcatgtatgc  5040

tcattcctat gacatctttc tgatataata attatagtta ttcttaagct tcaccctttt  5100

ttctattagc tttgttacct tgggtgtcac ttttttctttt ttgacattgt gacctatgcc  5160

agatcatgtc tgttagtact tagccctcca ttcacctctc cataatccct tttgtattcc  5220

tggagcttga tgcctgaaat gacacatcct acattccttt gccagatggg taccagttag  5280

cttgtgcaca tgggagacaa ccgtgaaaag actgaagtgg ggaagaaggg aggagctgtt  5340

gtgtttcagt gagcgccctt ggcagtggcg gtgacagtgg ctcctgttca gtggcaatgg  5400

tggagcagct agcaagacat gcagtaagcg caggctcata ggctatggtc caggagcagt  5460

caccgattcc tggtctttag gcaatatcat ctccctttgc ttctccagcc tttctaaaat  5520

tattgtacct tgactagtac aatttttttag tattgggggt agtccaagga cacaggcttt  5580

aaaaagtatg aattcagggt tgcctacctg cattgactgc gcttgaatca tgatggcctt  5640

ctggtcggtg gcaggaggtg acagtccaaa tcatgcagta gcaaaccaga tacttaaant  5700

atcatctgag atacttcaga agtacagccg tagccatacc ttcagaagag ataaagaaat  5760

gttctcctgg ccaggcgcgg tggctcacgc ctgtcattcc agcactttgg gaggccgagg  5820

gggtggatca cctgaggtcg ggagttcgag accagcctga ccaacatggg gaaaccctgt  5880

ctctactaaa aatacaaaat tagcggggcg tggtggcaca tgcccataat cccagctact  5940

cgggaggcta aggcaggata atcgcttgaa cctgagaggc agaggttgcg gtgaactgag  6000

atcatgccat agtactccag cctgggcaac aagagtgaaa ctccatctca aaaaaaaaa  6060

aaaagaaaaa aagataaaga aatgttctcc tttcttgcca tttctagggg tttggggatg  6120

gcgtacattg ctgcagggcg tgctcactct accatcttgc tccaatcttt atttttcaaa  6180

atacagtgct tatgcttggt tacttcagtt aagattattt ttaaaaatca taattaagca  6240

aaaatatatg gccatgctta aacatattta agataaatta agtgatttgg cctgtttcag  6300

tatcccaact cacatgctaa caggggcttg acctgtagct acggtaccct ggaggaaatg  6360

atcgcattta tttggttatt tcggtctaag tagtaatagt tctgtcctgg gaaaaagact  6420

agcctcaagg catttctgat tgaatgtttt tcaattacag tctttaaacc agtatgccac  6480

agaactggct ctttccacat gacggccttt gtggtgggtg gcagattgcc ctgaggcctc  6540

gcaaaatgct aggctttcac aatgtcactg actgacagcc aggcccagca cagtcttggt  6600

gtgattgtgg ggctaaagtt attccacctt gtgcaatagc tacagccttc tctaaccagc  6660
```

```
tgcattcttta taaagttaga agaaaatact ttttttttt tgagatggat tctcgctctg    6720

ttgcccaggc tggagtgcaa tggtgcgatc tcggctcgct gcaacctccg cctcctgggt    6780

tcaaacgatt ctcctccctc agaccccga gtagctggga ttgcaggtgc ctgccaccac     6840

gcccggctaa cttttttgta tttttagtgg agacggggtt tcaccatctt cgtcaggctg    6900

gtctcagact cctgacctca agtgatctgc ccgcctcagc ctcccaaaat gctgggatta    6960

caggcatgag ctactgtgcc cggccaaaga aaatactttt tatgccagcc ctgaaactac    7020

cctgaagcac atacatcaac cttgaggcct cacactccat caagaggggg gaagggcatg    7080

aggaattaga aagcataggg attttttagtt agacagatct ggttcaaatc ctagacttgt    7140

gccttgaaca aattatttac cctcattgaa ctctagattc attatttgta aaatgaaaga    7200

caataatagt tatctccaaa ggaaagttga atatgatcat tcatttattc attaattcaa    7260

catttattat tgcctacttt gtgccaggtt ctattctagg aactaaggga tacaactttg    7320

aataggcaaa atctctgctc tcctgaagtt tacttttttt tttttttttt tgagacagag    7380

tttcactctt gtcacccagg ctggagcgca atggtgctct ggctcactg caacctccac      7440

ctcctgggtt caagtgattc tcttgtctca gcctcccaag tagctgggac tacaggtatg    7500

tgccaccacg cccggctatt tctgcatttt tagtagagat ggggtttcac catgttggcc    7560

agactggtct caaactcctg atctcaggtg atatgcctgt cttggccttc caaagtactg    7620

ggattacagg cctgagccac tgcacctgac ctgaagttta tgttctatta aatagcaaca    7680

gacagtaaca taaaccaaaa ataaatagga aaacaccata acaaaaatca aacagtgata    7740

taattgagag ttgcttctat ttcttttgt tgtcttcttg gttcaatcag cctgctaaac     7800

tatatggaac ctcattttca tgggccactt atttaagccg ggggaccttg gaaagtctct    7860

catgtctctc atctcaacgg cctaatgtga cttctcttga aatatttgga cattagcagg    7920

aagctgaggc tttacatcag atctttactt taatggtgga cttgacttta ctggtagatt    7980

tttaggctct gtgtggactg tggagatgat atctgggggg caggcagaca cttgccctgc    8040

ctctgtctga gaaaattctg ttttggatgt cttgttgaag ttggtgctgg catcctaagc    8100

ccttgctggg gtcgtaattt aattcatcag aatgtgtggc ttgcaagaac cggctcagat    8160

cctgcgcttc aaaaacaaaa catgagcgtg ccaagaaagt ccaaggtgtt gaatgttgcc    8220

acttcaagcc taaactttct aggaacacct aagtgggtgg cagcttccag ttctccaggc    8280

tgcttctagg ccagagctgg gttccacaag agacagaata ggcatatata tgcttaagga    8340

actggaaaaa caggctctct ctctctcaca aacacacaca cacacatacc aaggtagctg    8400

tcaaaatgtt atccgaaatt ttggaaccaa aaaatcttga aagatggtat tccaatatca    8460

cattttatgt aagttttcta ttatattaga ttcaaattac gattcgaggc cacaagcttt    8520

aagaattcag ggcctttta acttgccaag ccccacacca ctccaggaac ttccccacac      8580
```

Page 9

```
cccagttctc agaattcatg tgcaaggtct ttcctaaatc cagggtccag gtcagagagt   8640

ggaggatgtg ctctatttct tacctgattg cagacccctc tgacagtgct cccttctgaa   8700

gcactcactg tctgaacgta cacagtctca gacttaatca tgcacagtga caagactgt   8760

ggtgtgataa ttggcgtccc tgacttatta gggcaaatct atgggagggg gagacctcct   8820

ggaccactga gcaattaatt catttacatt aggaagtttc tccgtcagat gcaggaaaaa   8880

aatcttgttt tcctgctgtg gttttgactt ttgccccatc ttctgttgct gttgtaggag   8940

gcaaaataag ggtcaaggcc tggaaacaca agtgctttga ctgaagctcc acttggcttc   9000

cgaagcccaa gctgggttgt accaggttcc ctagggtgca ggctgtgggc aactgccagg   9060

gacatgtgcc tgcccaccgg cctctggccc tcactgagtt ggccaatggg aaatgacaat   9120

tgtgaggtgg ggactgcctg cccccgtgag taccaggctg ttgaggctgg gccatctcct   9180

cctcacttcc attctgactg cagtctgtgg ttctgattcc ataccagag              9229


<210>   4
<211>   1401
<212>   DNA
<213>   Homo sapiens

<400>   4
ccacttattt aagccggggg accttggaaa gtctctcatg tctctcatct caacggccta     60

atgtgacttc tcttgaaata tttggacatt agcaggaagc tgaggcttta catcagatct    120

ttactttaat ggtggacttg actttactgg tagatttta ggctctgtgt ggactgtgga    180

gatgatatct ggggggcagg cagacacttg ccctgcctct gtctgagaaa attctgtttt    240

ggatgtcttg ttgaagttgg tgctggcatc ctaagccctt gctggggtcg taatttaatt    300

catcagaatg tgtggcttgc aagaaccggc tcagatcctg cgcttcaaaa acaaaacatg    360

agcgtgccaa gaaagtccaa ggtgttgaat gttgccactt caagcctaaa ctttctagga    420

acacctaagt gggtggcagc ttccagttct ccaggctgct tctaggccag agctgggttc    480

cacaagagac agaataggca tatatatgct taaggaactg gaaaaacagg ctctctctct    540

ctcacaaaca cacacacaca cataccaagg tagctgtcaa aatgttatcc gaaattttgg    600

aaccaaaaaa tcttgaaaga tggtattcca atatcacatt ttatgtaagt tttctattat    660

attagattca aattacgatt cgaggccaca agctttaaga attcagggcc tttttaactt    720

gccaagcccc acaccactcc aggaacttcc ccacacccca gttctcagaa ttcatgtgca    780

aggtctttcc taaatccagg gtccaggtca gagagtggag gatgtgctct atttcttacc    840

tgattgcaga cccctctgac agtgctccct tctgaagcac tcactgtctg aacgtacaca    900

gtctcagact taatcatgca cagtgagcaa gactgtggtg tgataattgg cgtccctgac    960

ttattagggc aaatctatgg gaggggagag cctcctggac cactgagcaa ttaattcatt   1020

tacattagga agtttctccg tcagatgcag gaaaaaaatc ttgttttcct gctgtggttt   1080
```
Page 10

```
tgacttttgc cccatcttct gttgctgttg taggaggcaa aataagggtc aaggcctgga      1140

aacacaagtg ctttgactga agctccactt ggcttccgaa gcccaagctg ggttgtacca      1200

ggttccctag ggtgcaggct gtgggcaact gccagggaca tgtgcctgcc caccggcctc      1260

tggccctcac tgagttggcc aatgggaaat gacaattgtg aggtggggac tgcctgcccc      1320

cgtgagtacc aggctgttga ggctgggcca tctcctcctc acttccattc tgactgcagt      1380

ctgtggttct gattccatac c                                                1401
```

```
<210>  5
<211>  32
<212>  DNA
<213>  Homo sapiens

<400>  5
gaagcccaag ctgggttgta ccaggttccc ta                                      32
```

```
<210>  6
<211>  736
<212>  DNA
<213>  Homo sapiens

<400>  6
atgctgttgc tgggagctgt tctactgcta ttagctctgc ccggtcatga ccaggaaacc       60

acgactcaag ggcccggagt cctgcttccc ctgcccaagg gggcctgcac aggttggatg      120

gcgggcatcc agggcatcc gggccataat ggggccccag ccgtgatgg cagagatggc        180

acccctggtg agaagggtga gaaaggagat ccaggtctta ttggtcctaa gggagacatc      240

ggtgaaaccg gagtacccgg ggctgaaggt ccccgaggct ttccgggaat ccaaggcagg      300

aaaggagaac ctggagaagg tgcctatgta taccgctcag cattcagtgt gggattggag      360

acttacgtta ctatccccaa catgcccatt cgctttacca agatcttcta caatcagcaa      420

aaccactatg atggctccac tggtaaattc cactgcaaca ttcctgggct gtactacttt      480

gcctaccaca tcacagtcta tatgaaggat gtgaaggtca gcctcttcaa gaaggacaag      540

gctatgctct tcacctatga tcagtaccag gaaaataatg tggaccaggc ctccggctct      600

gtgctcctgc atctggaggt gggcgaccaa gtctggctcc aggtgtatgg ggaaggagag      660

cgtaatggac tctatgctga taatgacaat gactccacct tcacaggctt tcttctctac      720

catgacacca actgat                                                       736
```

```
<210>  7
<211>  244
<212>  PRT
<213>  Homo sapiens

<400>  7
```

Met Leu Leu Leu Gly Ala Val Leu Leu Leu Leu Ala Leu Pro Gly His

```
1                    5                         10                        15

Asp Gln Glu Thr Thr Thr Gln Gly Pro Gly Val Leu Leu Pro Leu Pro
          20                  25                  30

Lys Gly Ala Cys Thr Gly Trp Met Ala Gly Ile Pro Gly His Pro Gly
          35              40                  45

His Asn Gly Ala Pro Gly Arg Asp Gly Arg Asp Gly Thr Pro Gly Glu
          50              55              60

Lys Gly Glu Lys Gly Asp Pro Gly Leu Ile Gly Pro Lys Gly Asp Ile
65                  70              75              80

Gly Glu Thr Gly Val Pro Gly Ala Glu Gly Pro Arg Gly Phe Pro Gly
              85              90              95

Ile Gln Gly Arg Lys Gly Glu Pro Gly Glu Gly Ala Tyr Val Tyr Arg
          100             105             110

Ser Ala Phe Ser Val Gly Leu Glu Thr Tyr Val Thr Ile Pro Asn Met
          115             120             125

Pro Ile Arg Phe Thr Lys Ile Phe Tyr Asn Gln Gln Asn His Tyr Asp
    130             135             140

Gly Ser Thr Gly Lys Phe His Cys Asn Ile Pro Gly Leu Tyr Tyr Phe
145             150             155             160

Ala Tyr His Ile Thr Val Tyr Met Lys Asp Val Lys Val Ser Leu Phe
              165             170             175

Lys Lys Asp Lys Ala Met Leu Phe Thr Tyr Asp Gln Tyr Gln Glu Asn
          180             185             190

Asn Val Asp Gln Ala Ser Gly Ser Val Leu Leu His Leu Glu Val Gly
          195             200             205

Asp Gln Val Trp Leu Gln Val Tyr Gly Glu Gly Glu Arg Asn Gly Leu
    210             215             220

Tyr Ala Asp Asn Asp Asn Asp Ser Thr Phe Thr Gly Phe Leu Leu Tyr
225             230             235             240

His Asp Thr Asn
```